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- Relevancy (descending)
- Title (ascending)
- Open Date (descending)
- Close Date (descending)
- Release Date (descending)

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Displaying 1 - 10 of 491 results

1. 1: ADVANCED DIGITAL NETWORK TECHNOLOGIES AND MIDDLEWARE SERVICES

a. PerfSONAR Based Network Monitoring Tools and Services perfSONAR (http://www.perfsonar.net) is a network monitoring architecture developed by the international Research and Education Network (REN) community for developing multi-domain measurement and monitoring services. Using this architecture engineers can deploy tools and services that collect and store unique data values in ...

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2. 2: INCREASING ADOPTION OF HPC MODELING AND SIMULATION IN THE ADVANCED MANUFACTURING AND ENGINEERING INDUSTRIES

a. Turnkey HPC Solutions for Manufacturing and Engineering HPC modeling and simulation applications are utilized by many industries in their product development cycle, but hurdles remain for wider adoption especially for small and medium sized manufacturing and engineering firms. Some of the hurdles are: overly complex applications, lack of hardware resources, inability to run ...

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3. 3: HPC CYBERSECURITY

a. Cybersecurity Technologies This topic solicits unclassified proposals that will deliver and market commercial products ensuring effective and practical cybersecurity for HPC systems, centers, large scale distributed applications, critical infrastructure, or user facilities. These tools will have the capability to detect, prevent, or analyze attempts to compromise or degrade syste ...

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4. [4: RF GUN AND VACUUM TECHNOLOGIES FOR LIGHT SOURCE FACILITIES](#)

a. Development of Complex, Integrated 3D Vacuum Chamber Structures Next generation synchrotron light sources would like to make use of vacuum chambers of a much reduced inner size. There is a concurrent requirement for the egress of both insertion device and bend magnet xray radiation [1,2]. X-ray egress from the storage ring vacuum chamber requires tangential branching tubes to c ...

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5. [15: ADVANCED FOSSIL ENERGY SEPARATIONS AND ANALYSIS RESEARCH](#)

a. Enabling Technologies for Advanced Combustion Systems Develop and validate a predictive, multi-scale, combustion model to optimize the design and operation of a spouted bed using a coal and biomass mixture to reduce GHG emissions. This predictive capability, if attained, will change fundamentally the process for combustion of combined fuels by establishing a scientific understa ...

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6. [16: TECHNOLOGY TRANSFER OPPORTUNITIES: BASIC ENERGY SCIENCES](#)

a. Technology Transfer Opportunity: Synthesis of High Quality Graphene Lawrence Berkeley National Laboratory has developed a technology for synthesizing high homogeneity, micrometer scale graphene sheets. One highly successful approach has been simultaneous vacuum thermal decomposition of two SiC substrates, placed in close, face-to-face proximity to each other. The thickness of ...

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7. [01: Advanced Network Technologies and Services](#)

Release Date: 07-29-2011 Open Date: 08-02-2011 Due Date: 09-17-2011 Close Date: 09-17-2011

The Internet is a collection of independently owned and operated networks interconnected in

a complex mesh to meet the needs of today's digital society. These networks range from broadband networks supporting consumer activities (i.e., entertainment, business, and SOHO work activities) to multi-Gigibit/sec Research and Education Networks (RENs) supporting largescale science experiments at major ...

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8. a: Extensions to perfSONAR

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

perfSONAR is a framework for developing multi-domain measurement and monitoring services. This framework separates the collection of data from the use of this data. It also provides access control mechanisms and services that allow network providers to control how collected data is shared with peers and other potential data consumers. The ability to separate data collection from data consumption p ...

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9. b: Management Tools for Network Operators

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

network infrastructure must be actively managed to ensure that the infrastructure itself does not become a major performance bottleneck. This management requires an understanding of how traffic is currently flowing, making predictions about how traffic flows will change in the future, and, increasingly, how much energy this infrastructure is using. Network operations staff need tools and services ...

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10. c: Optical Network Support Services

Release Date: 07-29-2011Open Date: 08-02-2011Due Date: 09-17-2011Close Date: 09-17-2011

Optical networks have revolutionized wide area network infrastructure deployments providing ever increasing amounts of bandwidth at ever decreasing costs. As costs dropped, optical network components moved out of the wide area and into the metro area and now the home distribution environment. This expansion requires a shift away from small numbers of very expensive optical test gear to a world wit ...

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- 1
- 2
- 3
- 4
- 5
- 6
- 7

- [8](#)
- [9](#)
- …
- [Next](#)
- [Last](#)

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